

PATENT ABSTRACTS OF JAPAN

(11) Publication number : 11-158234
(43) Date of publication of application : 15.06.1999

(51) Int. Cl. C08F255/02
C08F 2/00
C08F 2/44
C08F 6/00

(21) Application number : 10-274729 (71) Applicant : MONTELL NORTH AMERICA INC
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(30) Priority
Priority number : 97 939237 Priority date : 29.09.1997 Priority country : US

(54) USE OF NITROGEN MONOXIDE FOR REDUCTION OF CONTAMINATION IN REACTOR DURING GRAFT COPOLYMERIZATION OF POLYPROPYLENE

(57) Abstract:

PROBLEM TO BE SOLVED: To reduce contamination in a reactor by subjecting a propylene polymer, in the presence of an inert gas containing a certain amount of nitrogen monoxide, to a treatment with an organic compound as a radical polymerization initiator and a treatment with a graft monomer.
SOLUTION: About 0.05-50 pts.wt. nitrogen monoxide is mixed with 1,000,000 pts.wt. inert gas. A treatment with a graft monomer is carried out in a course simultaneous with, partly overlapping with and subsequent to, or subsequent to a treatment with an organic compound as a radical polymerization initiator. A graft monomer is employed at a level of about 5 - about 40 pts.wt. relative to 100 pts.wt. propylene polymer. An unreacted monomer is removed and an unreacted initiator is decomposed and inactivated.

LEGAL STATUS

[Date of request for examination]
[Date of sending the examiner's decision of rejection]
[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]
[Date of final disposal for application]
[Patent number]
[Date of registration]
[Number of appeal against examiner's decision of rejection]
[Date of requesting appeal against examiner's decision of rejection]
[Date of extinction of right]